Reply to Office Action dated January 18, 2007

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): A pinching detection apparatus comprising:

a pressure sensor disposed along an outer edge of a trunk lid of a vehicle-such that the

pressure sensor does not come into contact with the body of the vehicle when the trunk lid is

elosed; and

determination means for detecting that an object is pinched between a body opening

section of said vehicle and said trunk lid in accordance with a signal output from said pressure

sensor,

wherein a predetermined clearance is provided between the pressure sensor and a body of

the vehicle when the trunk lid is closed.

Claim 2 (Original): The pinching detection apparatus according to claim 1, wherein said

pressure sensor has a flexible piezoelectric sensor.

Claim 3 (Original): The pinching detection apparatus according to claim 2, wherein said

pressure sensor has a nonlinear flexible member whose displacement in response to load is

nonlinear, and said piezoelectric sensor is disposed adjacent to said nonlinear flexible member.

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Claim 4 (Original): The pinching detection apparatus according to claim 2, wherein said

determination means determines whether or not said object maintains contact with the object, on

the basis of said signal output from said piezoelectric sensor.

Claim 5 (Original): The pinching detection apparatus according to claim 1, wherein said

pressure sensor has a cushioning section which can be compressed by pressing action stemming

from pinching of said pinched object.

Claim 6 (Currently amended): An opening/closing apparatus comprising:

a pinching detection apparatus having a pressure sensor laid along an outer edge of a

trunk lid of a vehicle such that the pressure sensor does not contact a body of the vehicle when

the trunk lid is closed, and determination means for detecting that an object is pinched between a

body opening section of said vehicle and said trunk lid in accordance with a signal output from

said pressure sensor:

drive means for driving said trunk lid; and

control means for controlling said drive means so as to release pinching when occurrence

of pinching has been determined by said pinch determination means on the basis of a signal

output from said determination means.

wherein a predetermined clearance is provided between the pressure sensor and a body of

the vehicle when the trunk lid is closed.

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Claim 7 (Original): The opening/closing apparatus according to claim 6, wherein, when

closing said trunk lid, said control means controls said drive means so as to close said trunk lid

after said trunk lid has once been moved over a predetermined distance in an opening direction.

Claim 8 (Currently amended): The pinching detection apparatus according to claim 1,

wherein a distance the predetermined clearance between the pressure sensor and the body of the

vehicle when the trunk lid is closed is between 3 mm and 5 mm.

Claim 9 (Previously presented): The pinching detection apparatus according to claim 1,

further comprising a seal configured to seal a gap between an opening in the body of the vehicle

and the trunk lid when the trunk lid is closed.